

**NEURAL NET-CALL PROGRESS DETECT****ABSTRACT OF THE DISCLOSURE**

An artificial neural network (ANN) based method and system for automatically optimizing the call progress detection system to a given telephone network environment. The artificial neural network learns or trains using real data to detect and recognize call progress tones or signals. The ANN system generally comprises a training component and a detection component. After the ANN is trained, the training component can be removed and only the detection component is installed on the telephone terminal device.

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